DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) RS-B-507 b)	a) b) c)	Shrike, Booster Flexadyne, 3.01 sec, 7,330 lb-thrust
a) RS-B-508 b)	a) b) c)	Redhead, Booster Flexadyne, 10.35 sec, 5,650 lb-thrust
a) RS-B-509 b)	a) b) c)	Sidewinder, Flexadyne, 5.28 sec, 2,630 lb-thrust
a) RS-B-510 b)	a) b) c)	Phoenix, Flexadyne, 27.5 sec, 3,435 lb-thrust
a) RS-B-511 b)	a) b) c)	Shrike, Flexadyne
a) RS-B-512 b)	a) b) c)	Sparrow, Rocketdyne
a) RS-B-513 b)	a) b) c)	Sidewinder, Rocketdyne Product Improvement Program
a) RS-D-101 b)	a) b) c)	Target Drone
a) RS-B-101 b)	a) b) c)	Tarter/Terrier MK2, Gas Gen Nitrate, End Burning, 70 sec
a) RS-B-102 b)	a) b) c)	Tarter/Terrier MK3, Gas Gen Nitrate End Burning, 70 sec
a) RS-G-103 b)	a) b) c)	Liquid Engine Turbine Starter Type A&A Gas Gen Nitrate, .99 sec, Multitubular

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) RS-G-104 b)	a) b) c)	Liquid Engine Turbine Starter Type K, Gas Gen Nitrate, 1.19 sec, multitubular
a) RS-G-105 b)	a) b) c)	Liquid Engine Turbine Starter Type F, Gas Gen Nitrate, 1.36 sec, multitubular
a) RS-G-106 b)	a) b) c)	Liquid Engine Turbine Starter Type J, Gas Gen Nitrate, 1.31 sec, multitubular
a) RS-G-107 b)	a) b) c)	A3J Cartridge, Gas Gen Nitrate, .25 sec, Internal Slatted
a) RS-G-108 b)	a) b) c)	Sidewinder, Gas Gen Nitrate, 60 sec, Endburning
a) RS-G-109 b)	a) b) c)	MXU-4A Starter Cartridge, Gas Gen Nitrate 17 sec, Internal aft end
a) RS-G-110 b)	a) b) c)	Lance, Gas Gen Nitrate, Cancelled
a) RS-G-201 b)	a) b) c)	Falcon APS, Endburning (Dual Charge) 35 sec
a) RS-G-202 b)	a) b) c)	Nike Zeus APS, Endburning, 186 sec
a) RS-G-203 b)	a) b) c)	MXU-4A/A
a) RS-I-101 b)	a) b) c)	M15A1, Pelleted Pyro Ignitors
a) RS-I-102 b)	a) b) c)	DM-18 Retro, Pelleted Pyro Ignitors

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) RS-I-103 b)	a) b) c)	Producer, Pelleted Pyro Ignitor
a) RS-I-104 b)	a) b) c)	Megaboom, Pelleted Pyro Ignitors
a) RS-I-105 b)	a) b) c)	Temco Drone, Pelleted Pyro Ignitors
a) RS-I-106 b)	a) b) c)	Zell M-34, Pelleted Pyro Ignitors
a) RS-I-107 b)	a) b) c)	Navy Jato, Pelleted Pyro Ignitors
a) RS-I-108 b)	a) b) c)	Cast B, RS-B-402 Motor, Pelleted Pyro Ignitors
a) RS-I-109 b)	a) b) c)	Cast B, RS-B-404 Motor, Pelleted Pyro Ignitors
a) RS-I-110 b)	a) b) c)	Cast B, RS-B-403 Motor, Pelleted Pyro Ignitors
a) RS-I-111 b)	a) b) c)	Cast B, RS-B-501 Motor, Pelleted Pyro Ignitors
a) RS-I-112 b)	a) b) c)	Allison Attitude Control Chamber Pelleted Pyro Ignitors
a) RS-I-113 b)	a) b) c)	Redhead/Roadrunner, Pelleted Pyro Ignitors

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) RS-I-114 b)	a) b) c)	Convair B58 Escape Capsule, Pelleted Pyro Ignitors
a) RS-I-115 b)	a) b) c)	Sparrow III, Pelleted Pyro Ignitors
a) RS-I-116 b)	a) b) c)	Gam 83, Pelleted Pyro Ignitors
a) RS-I-117 b)	a) b) c)	F104 Development, Pelleted Pyro Ignitors
a) RS-I-118 b)	a) b) c)	Redhead Booster, Pelleted Pyro Ignitors
a) RS-I-119 b)	a) b) c)	F104, Pelleted Pyro Ignitors
a) RS-I-201 b)	a) b) c)	Aeolus RS-B-104, Pyrogen Ignitors
a) RS-I-202 b)	a) b) c)	RS-G-103 MKU-4A/A, Pyrogen Ignitors
a) RS-I-401 b)	a) b) c)	Nike Zeus, Initiator Sustainer Ignitors
a) RS-J-101 b)	a) b) c)	Jato M15A1, Jato Nitrate, 15.01 sec, 1020 lb-thrust
a) RS-J-102 b)	a) b) c)	Navy Jato, Jato Nitrate, 10 sec, 2300 lb-thrust

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) RS-J-103 b)	a) b) c)	MK 25 Jato, Jato Nitrate, 5.36 sec, 4400 lb-thrust
a) RS-J-104 b)	a) b) c)	Long Duration Jato, Jato Nitrate
a) RS-J-105 b)	a) b) c)	XM15 Jato, Jato Nitrate, 15.9 sec, 1020 lb-thrust
a) RS-J-106 b)	a) b) c)	Jato, Jato Nitrate
a) RS-I-107 b)	a) b) c)	MK25 Mod I Jato, Jato Nitrate
a) RS-J-108 b)	a) b) c)	MK25 Mod II Jato, Jato Nitrate
a) RS-R-105 b)	a) b) c)	Retro Rocket Motor (Nitrate), 3.74 sec, 22,900 lb-thrust
a) RS-U-501 b)	a) b) c)	SII Stage Saturn V (Ullage Flexadyne) 3.74 sec, 22,900 lb-thrust
a) S b)	a) PC-52aS b) c)	
a) S-1 b)	a) b) c)	
a) S-1A b)	a) b) c)	

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) S-2 b)	a) b) c)	
a) S-3 b)	a) b) c) Redstone	
a) S-3A b) LR79-NA-5	a) PC-180S b) c) Redstone	150K Thrust Pump Fed Bi-propellant Obsolete
a) S-3B b)	a) b) c)	Obsolete
a) S-3C b)	a) b) c)	
a) S-3D b)	a) R-1024aS b) 100067 c) Thor/Jupiter	150K Thrust, 8:1 Expansion Ratio
a) S-3E b) XLR79-NA-7	a) b) c) Thor	Improved 150K Thrust
a) S-3X b)	a) b) c) Thor/Atlas	165K LOX-RP Experimental Booster
a) S-4 b) XLR105-NA-1	a) b) c)	54K Thrust Chamber Gimbaled 12:1 Expansion Ratio
a) S-4A b)	a) b) c)	Obsolete
a) S-4B b)	a) b) c)	Obsolete

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) S-4C b)	a) b) c)	Obsolete
a) S-4D b) XLR105-NA-3	a) b) c) Atlas	Improved 57K Thrust
a) S-4E b) XLR105-NA-5	a) b) c) Atlas	Improved Production Model 57K Thrust
a) S-4F b)	a) b) c)	Flox Sustainer Engine Concept
a) S-4X b)	a) b) c) Thor/Atlas	Tapoff (X-4) Turbine Drive System
a) S-5 b)	a) R-140S b) 9591-40001 c) Titan	Liquid Propellant Calibrated Thrust 77,500 lb at 150,000 + feet
a) S-7 b)	a) b) c)	100K - Approximates Physical Size of S-4
a) S-8 b)	a) PC-52aS b) c) Atlas	Sustainer
a) SE-1 b)	a) b) c) Atlas	Work Horse, Ablative Chamber 1000 lb-thrust
a) SE-2 b)	a) b) c) Atlas	Ablative Chamber
a) SE-3 b)	a) b) c) Atlas	

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) SE-4 b)	a) b) c)	50 lb, 10 lb, and 1 lb thrust chambers
a) SE-4-1 b)	a) R-3351S b) 102851 c)	
a) SE-4-2 b)	a) R-3352S b) 102858 c)	
a) SE-5 b)	a) R-3471S b) c)	Attitude Control System multiple Thrust Chamber, 48 lb-thrust, for GE
a) SE-5-1 b)	a) R-3471S b) c)	48 lb-thrust chamber for GE
a) SE-5-2 b)	a) R-3472aS b) c)	48 lb-thrust chamber for GE
a) SE-5-3 b)	a) R-5953SC b) c)	Secret program
a) SE-6 b)	a) R-3496S b) c) Gemini	Reaction Control System,McDonnell
a) SE-6D b)	a) b) c) Gemini	Reaction Control System,McDonnell
a) SE-6R b)	a) b) c)	Reaction Control System,McDonnell
a) SE-7 b)	a) R-3497S b) 205751 c)	Orbit Attitude and Manuevering System for McDonnell

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC. NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) SE-7R b)	a) b) c)	
a) SE-8 b)	a) R-2416S b) c) Apollo	Apollo Command Module 100 lb-thrust, similar to SE-6, for S&ID
a) SE-8-1 b)	a) R-5041 b) c)	93 lb 2-coil propellant ablatively cooled storable propellant, for S&ID
a) SE-8-2 b)	a) R-5041 b) c) Apollo	90 lb 2-coil propellant valves, ablatively cooled, for S&ID
a) SE-8-3 b)	a) b) c)	9:1 Nozzle area ratio one-piece ablative thrust chamber
a) SE-8-4 b)	a) b) c)	9:1 Nozzle area ratio
a) SE-8-5 b)	a) b) c)	9:1 Nozzle area ratio, 93 lb-thrust
a) SE-8-6 b)	a) b) c)	Pitch control nozzle extension
a) SE-8-7 b)	a) b) c)	Nozzle extension yaw control
a) SE-8-8 b)	a) b) c)	Nozzle extension roll control
a) SE-9Q b)	a) b) c)	Model Designation released for drawing purposes only

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) SE-9 b)	a) b) c) Titan III	Transtage ullage and attitude control system
a) SE-10 b)	a) b) c) LEM	LEM Descent Engine production model, 10,500 - 1050 lb, 10:1 throttling ratio, for Grumman
a) SE-10D b)	a) b) c) LEM	LEM Descent Engine development model, for Grumman
a) SE-10P b)	a) b) c) LEM	LEM Descent Engine prototype model, for Grumman
a) SE-10Q b)	a) b) c) LEM	LEM descant Engine model qualification, for Grumman
a) SE-11 b)	a) b) 304-370 c)	Fixed thrust, high altitude, bipropellant engine
a) SE-12 b)	a) b) c)	
a) SEN-8 b)	a) b) c) Apollo	Nozzle extension for SE-8-2
a) V b)	a) R-211S b) 9572-43100 c) Atlas/Thor	Two thrust chambers, 1000 lb-thrust each
a) V-1 b) XLR101-NA-1	a) PC-55-S b) c) Atlas	Vernier Rocket engine, two 1000 lb thrust chambers
a) V-1A b)	a) b) c) Atlas	1000 lb ± 3% thrust (PF), 830 lb ± 3% thrust (TF), non-current

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC. NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) V-1B b) XLR101-NA-1 XLR101-NA-5	a) b) c) Atlas/Thor	1000 lb ± 3% thrust (PF), 830 lb ± 3% thrust (TF)
a) V-1C b) XLR101-NA-3	a) b) c) Atlas	100 lb ± 3% thrust (PF), 830 lb ± 3% thrust (TF)
a) V-1D b) XLR101-NA-7	a) b) c) Atlas	1000 lb ± 3% thrust (PF), 830 lb ± 3% thrust (TF), inactive
a) V-3 b) XLR101-NA-11	a) b) c)	UDMH and N_2O_4
a) V-4 b) XLR101-NA-11	a) R-2016S b) 350851 c) Thor	Modified to be compatible with a UDMH-N_2O_4 Storable Liquid
a) V-5 b)	a) b) c)	Vernier for WS117-L
a) V-6 b)	a) R-2414S b) 350835 c) Atlas (F)	450 lb Vernier

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SECTION II

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC. NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) A-2 b) 7-110	a) b) c)	Section I, Page 1
a) A-3 b) 75-110	a) b) c)	Section I, Page 1
a) A-4 b) 75-110	a) b) c)	Section I, Page 1
a) A-5 b) 75-110	a) b) c)	Section I, Page 1
a) A-6 b) 75-110	a) b) c)	Section I, Page 1
a) A-7 b) 75-110	a) b) c)	Section I, Page 1
a) A-7S b) 75-110	a) b) c)	Section I, Page 1
a) A-8 b) 75-110	a) b) c)	Section I, Page 1
a) P4-1 b) LR64-NA-4	a) b) c)	Section I, Page 9
a) S-3A b) LR79-NA-5	a) b) c)	Section I, Page 20
a) b) LR79-NA-7	a) b) c) Thor	150 K, LOX/RP-1 fed pump

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC. NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) b) LR79-NA-9	a) R-1120cS b) 100567 c)	Single thrust, bipropellant engine 8:1 expansion ratio
a) b) LR79-NA-11	a) R-1144aS b) 100567 c) Thor	170 K thrust engine, 8:1 expansion ratio.
a) b) LR89-NA-3	a) b) c) Atlas	
a) b) LR89-NA-5	a) R-2455aS b) c) Atlas	
a) b) LR101-NA-5	a) b) c) Thor	830 lb - 1000 lb LOX/RP-1 pump fed
a) b) LR101-NA-7	a) R-2457aS b) c)	Vernier engine
a) b) LR101-NA-9	a) b) c)	
a) b) LR101-NA-11	a) R-1145aS b) 350655 c)	Bi-thrust, pressure fed engine
a) S-4D b) LR105-NA-3	a) b) c)	Section I, Page 21
a) b) LR105-NA-5	a) R-2456S b) c)	
a) AR-2-3 b) LR121-NA-1	a) b) c)	Section I, Page 2
a) AR-1 b) XLR36-NA-2	a) b) c)	Section I, Page 2

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC. NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) b) XLR38-NA-2	a) R-216S b) c)	Gas pressurized monopropellant system
a) b) XLR43-NA-1	a) b) c) Navaho	75 K LOX/Ethanol
a) b) XLR43-NA-3	a) b) c) Navaho II	120 K LOX/Ethanol pump fed
a) b) XLR43-NA-5	a) RE-146-S b) c)	
a) b) XLR54-NA-2	a) R-1088S b) c)	6K at 35,000 Feet, throttleable to 50%
a) AR b) XLR58-NA-2	a) b) c)	Section I, Page 2
a) P-4 b) XLR64-NA-2	a) b) c)	Section I, Page 9
a) G-26 b) XLR71-NA-1	a) b) c)	Section I, Page 5
a) b) XLR71-NA-3	a) RE-20-S b) c)	
a) S-3E b) XLR79-NA-7	a) b) c)	Section I, Pages 8, 20
a) MB-3 b) XLR79-NA-9	a) b) c)	Section I, Page 8

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DESIGNATION a) ROCKETDYNE b) CUSSOMER	a) SPEC. NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) D-4 b) XLR79-NA-11	a) b) c)	Section I, Pages 4, 8
a) G-38 b) XLR83-NA-1	a) b) c)	Section I, Page 5
a) B-3 b) XLR89-NA-1	a) b) c)	Section I, Page 3
a) B-3B b) XLR89-NA-3	a) b) c)	Section I, Page 3
a) B-3C-5 b) XLR89-NA-5	a) b) c)	Section I, Page 3
a) B-3C-7 b) XLR-NA-7	a) b) c)	Section I, Page 3
a) b) XLR93-NA-1	a) R-256S b) 9571-40001 c)	Booster, Sustainer and Vernier - total thrust, 322 K
a) V-1 b) XLR101-NA-1	a) b) c)	Section I, Page 24
a) V-1B b) XLR101-NA-5	a) b) c)	Section I, Page 24
a) V-1C b) XLR101-NA-3	a) b) c)	Section I, Page 24
a) V-D b) XLR101-NA-7	a) b) c)	Section I, Page 25

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DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC. NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) b) XLR101-NA-9	a) R-1121bS b) c)	
a) V-3,V-4 b) XLR101-NA-11	a) b) c)	Section I, Page 25
a) S-4 b) XLR105-NA-1	a) b) c)	Section I, Page 20
a) S-4D b) XLR105-NA-3	a) b) c)	Section I, Page 21
a) S-4E b) XLR105-NA-5	a) b) c)	Section I, P ge 21
a) E-1 b) XLR109-NA-1	a) b) c)	Section I, Page 4
a) AR-1 b) YLR36-NA-2	a) b) c)	Section I, Page 2
a) AR-2 b) YLR42-NA-2	a) b) c)	Section I, Page 2
a) AR-2-1 b) YLR46-NA-2	a) b) c)	Section I, Page 2
a) AR-2-2 b) YLR54-NA-2	a) b) c)	Section I, Page 2
a) MB3-III b) YLR79-NA-13	a) b) c)	Section I, Page 8

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HDMSt00024211

SECTION II

DESIGNATION a) ROCKETDYNE b) CUSTOMER	a) SPEC. NO. b) TOP DRAWING NO. c) PROGRAM	DESCRIPTION AND NOTATIONS
a) b) YLR89-NA-7	a) b) c)	309 K, two chambers, LOX/RP-1 fed pump
a) b) YLR101-NA-13	a) b) c) Atlas	830 lb - 1000 lb, LOX/RP-1, Vernier
a) b) YLR105-NA-7	a) b) c)	57K LOX/RP-1, pump fed sustainer

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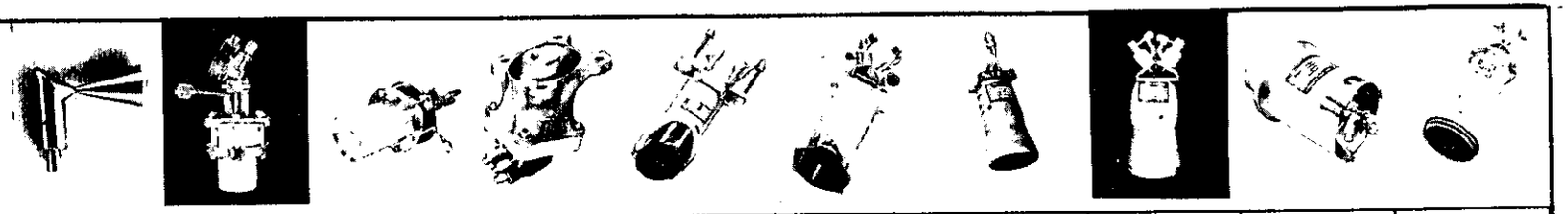
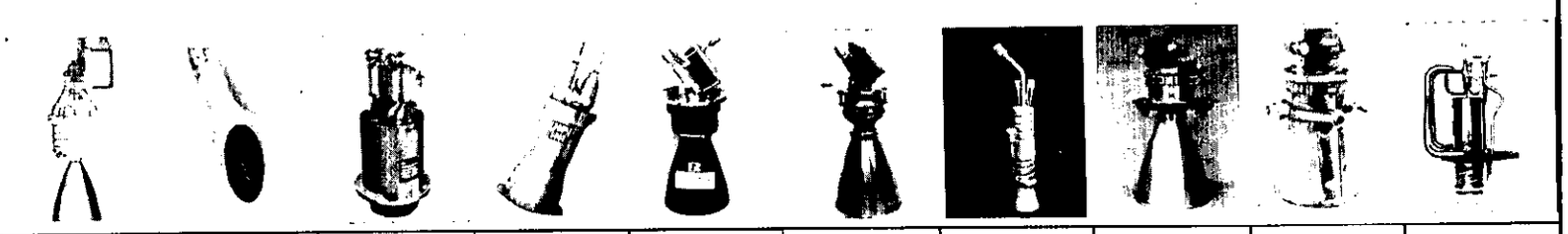
HDMSt00024212

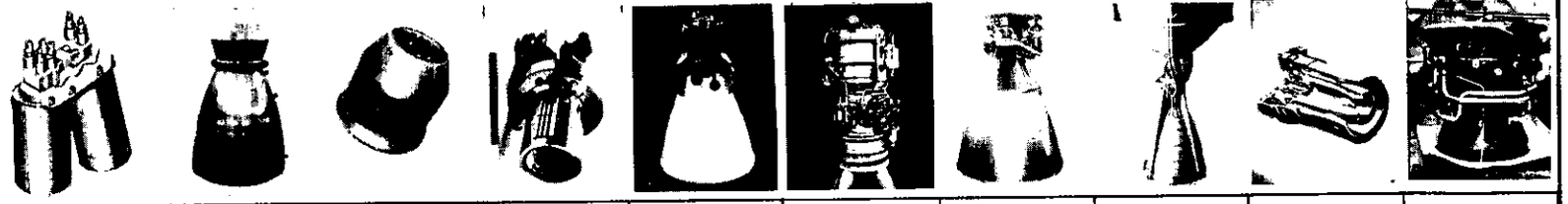
Rocketdyne 1960's Small Engines by Thrust Level



THRUST, LB: PROPELLANTS: T/C TYPE: PROGRAM: DESIGN YEAR:	0.01 $O_2/H_2/N_2$ S.S. ADV. TECH. - NASA 1969	1 N_2O_4 / MMH BERYLLIUM ADV. TECH. - NASA 1967	5 N_2O_4 / MMH BERYLLIUM ADV. TECH. - NASA 1967	18/23 N_2O_4 / MMH BERYLLIUM PBPS 1966	25 N_2O_4 / MMH ABLATIVE GEMINI AND GEMINI B 1963	25 N_2O_4 / MMH ABLATIVE GEMINI 1963	25 N_2O_4 / 50-50 ABLATIVE TRANSTAGE 1964	45 N_2O_4 / 50-50 ABLATIVE TRANSTAGE 1964	50 N_2O_4 / 75-25 N_2H_4-MMH ABLATIVE AGENA 1962	72 N_2O_4 / MMH ABLATIVE SIVB 1965



THRUST, LB: PROPELLANTS: T/C TYPE: PROGRAM: DESIGN YEAR:	75 N_2H_4 MONOPROP. STAINLESS STEEL ADV. TECH. 1968	85 N_2O_4 / MMH ABLATIVE GEMINI 1963	93 N_2O_4 / MMH ABLATIVE APOLLO 1964	100 N_2O_4 / MMH ABLATIVE GEMINI 1963	100 N_2O_4 / MMH BERYLLIUM ADV. TECH. - AF 1967	100 N_2O_4 / MMH BERYLLIUM ADV. TECH. - NASA 1968	125 TO 80 IRFNA / HYDYNE REGENERATIVE DRONE/NAVY 1963	300 N_2O_4 / MMH BERYLLIUM MARS MARINER 1968	318 N_2O_4 / MMH BERYLLIUM PBPS 1966	700 TO 200 IRFNA/HYDYNE REGENERATIVE DRONE/NAVY 1963



THRUST, LB: PROPELLANTS: T/C TYPE: PROGRAM: DESIGN YEAR:	700 ClF_3 / MHF-3 ABLATIVE CONDOR 1967	1000 N_2O_4 / MMH BERYLLIUM ADV. TECH.-NASA 1966	1000 COMP. A / MMH BERYLLIUM ADV. TECH. - AF 1967	1600 N_2O_4/ 50-50 ABLATIVE RESA-5 1969	3500 N_2O_4 / 50-50 ABLATIVE APOLLO LM 1967	12,000 TO 6,000 H_2O_4 - JP REGENERATIVE AIRCRAFT ROCKET 1955	10,000 - 1,000 N_2O_4 / 50-50 ABLATIVE APOLLO LM 1963	12,000 F_2 / N_2H_4 REGENERATIVE NOMAD 1958	1,000 TO 267 CPF/MHF ABLATIVE ADV. TECH. - AF 1969	40,000 TO 90 IRFNA/UDMH ABLATIVE LANCE - XRL 1964

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CONFIDENTIAL LEVEL I - UNDER PROTECTIVE ORDER,
United States District Court for the Central District of
California, No. CV 97-1554

HDMSt00024213